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Date of signature and deposit - Deacon J.L. 2007

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:
BRADY REUBEN DAVIES

) Confirmation No. TBA

Serial No. 10/590954

) Group Art Unit: TBA

Filed: August 28, 2006

) Examiner TBA

For: Selective Bonding for
Forming a Microvalve) Attorney Docket 1-24871
)

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

INFORMATION DISCLOSURE STATEMENT

Honorable Sir:

Pursuant to 37 C.F.R. 1.97(b), record is hereby made of information that the Patent Office may wish to consider in connection with its examination of the above-identified application. A completed PTO/SB/O8 form is enclosed along with copies of any such information with the exception of U.S. patent documents. As of the date of mailing of this paper a first office action on the merits has not been mailed the above-identified application.

Respectfully submitted,

James D. Schweikert
Reg. No. 58,057

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One Maritime Plaza, Fifth Floor
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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /LV/

(SUBSTITUTE FOR FORM 1449A/PTO)		APPLICATION NUMBER	10/59054
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		FILING DATE	August 28, 2006
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		FIRST NAMED INVENTOR	BRADY REUBEN DAVIES
SHEET 1 OF 5		ART UNIT	TBA
		EXAMINER NAME	TBA
		ATTORNEY DOCKET NUMBER	1-24871

U. S. PATENT DOCUMENTS

EXAMINER INITIAL	CITE NO. ¹	DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT	PAGES, COLUMNS, LINES WHERE RELEVANT PASSAGES OR RELEVANT FIGURES APPEAR
		NUMBER-KIND CODE ² (IF KNOWN)	MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT	
		0,886,045	04-28-1908	EHRLICH ET AL.	
		1,886,205	11-01-1932	LYFORD	
		1,926,031	09-12-1933	BOYNTON	
		2,412,205	12-10-1946	COOK	
		2,504,055	04-11-1950	THOMAS	
		2,840,107	06-24-1958	CAMPBELL	
		2,875,779	03-03-1959	CAMPBELL	
		3,031,747	05-01-1962	GREEN	
		3,729,807	05-01-1973	FUJIWARA	
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		4,019,388	04-26-1977	HALL, II ET AL.	
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		4,152,540	05-01-1979	DUNCAN ET AL.	
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		4,341,816	07-27-1982	LAUTERBACH ET AL.	
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		4,581,624	04-08-1986	O'CONNOR	
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		5,050,838	09-24-1991	BEATTY ET AL.	
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EXAMINER

DATE CONSIDERED

¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ²Applicant's unique citation designation number (optional). See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbol as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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(SUBSTITUTE FOR FORM 1449A/PTO) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		APPLICATION NUMBER	10/590954
		FILING DATE	August 28, 2006
		FIRST NAMED INVENTOR	BRADY REUBEN DAVIES
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		ART UNIT	TBA
		EXAMINER NAME	TBA
		ATTORNEY DOCKET NUMBER	1-24871

SHEET 2 OF 5

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	CITE NO. ¹	DOCUMENT NUMBER NUMBER-KIND CODE ² (IF KNOWN)	PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICATE OF CITED DOCUMENT	PAGES, COLUMNS, LINES WHERE RELEVANT PASSAGES OR RELEVANT FIGURES APPEAR
		5,058,856	10-22-1991	GORDON ET AL.	
		5,061,914	10-29-1991	BUSCH ET AL..	
		5,064,165	11-12-1991	JERMAN	
		5,065,978	11-19-1991	ALBARDA ET AL.	
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		5,069,419	12-03-1991	JERMAN	
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		5,082,242	01-21-1992	BONNE ET AL.	
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		5,375,919	12-27-1994	FURUHASHI	

EXAMINER _____ DATE CONSIDERED _____

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(SUBSTITUTE FOR FORM 1449A/PTO) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		APPLICATION NUMBER FILING DATE FIRST NAMED INVENTOR ART UNIT EXAMINER NAME ATTORNEY DOCKET NUMBER	10/590954 August 28, 2006 BRADY REUBEN DAVIES TBA TBA I-24871
INFORMATION DISCLOSURE STATEMENT BY APPLICANT			
SHEET 3 OF 5			

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	CITE NO. ¹	DOCUMENT NUMBER NUMBER-KIND CODE ² (if known)	PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT	PAGES, COLUMNS, LINES WHERE RELEVANT PASSAGES OR RELEVANT FIGURES APPEAR
		5,400,824	03-28-1995	G SCHWENDTNER ET AL.	
		5,417,235	05-23-1995	WISE ET AL.	
		5,445,185	08-29-1995	WATANABE ET AL.	
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		5,577,533	11-26-1996	COOK, JR.	
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		5,848,605	12-15-1998	BAILEY ET AL.	
		5,873,385	02-23-1999	BLOOM ET AL.	
		5,909,078	06-01-1999	WOOD ET AL.	
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		6,637,722	10-28-2003	HUNNICUTT	
		6,761,420	07-13-2004	MALUF ET AL.	
		6,845,962	01-25-2005	BARRON ET AL.	

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(SUBSTITUTE FOR FORM 1449A/PTO) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	APPLICATION NUMBER FILING DATE FIRST NAMED INVENTOR	10/590954 August 28, 2006 BRADY REUBEN DAVIES
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ART UNIT EXAMINER NAME	TBA TBA
SHEET 4 OF 5	ATTORNEY DOCKET NUMBER	I-24871

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	CITE NO.	FOREIGN PATENT DOCUMENT COUNTRY CODE NUMBER KIND CODE	PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT	PAGES, COLUMNS, LINES WHERE RELEVANT PASSAGES OR RELEVANT FIGURES APPEAR
		DE2215526	10-04-1973	LICENTIA GMBH	
		DE2930779	02-07-1980	TOKYO SHIBAURA ELECTRIC CO	
		DE3401404	07-25-1985	BOSCH GMBH ROBERT (DE)	
		DE4101575	07-23-1992	BOSCH GMBH ROBERT (DE)	
		DE4417251	11-23-1995	BOSCH GMBH ROBERT (DE)	
		DE4422942	01-04-1996	BOSCH GMBH ROBERT (DE)	
		EP250948	01-07-1988	FRAUNHOFER GES FORSCHUNG (DE)	
		EP261972	03-30-1988	UNIV LELAND STANFORD JUNIOR (US)	
		GB2238267	05-29-1991	STC PLC (GB)	
		WO00/14415	03-16-2000	LUCAS NOVASENSOR (US) et al.	
		WO99/16096	04-01-1999	MCNC et al.	

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(SUBSTITUTE FOR FORM 1449B/PTO) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		APPLICATION NUMBER	10/590954
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		FILING DATE	August 28, 2006
SHEET 5 OF 5		FIRST NAMED INVENTOR	BRADY REUBEN DAVIES
		ART UNIT	TBA
		EXAMINER NAME	TBA
		ATTORNEY DOCKET NUMBER	1-24871

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
		"A Silicon Microvalve For The Proportional Control Of Fluids" by K.R. Williams, N.I. Maluf, E.N. Fuller, R.J. Barron, D.P. Jaeggi, and B.P. van Drieënhuizen, TRANSDUCERS '99, Proc. 10th International Conference on Solid State Sensors and Actuators, held June 7-10, 1999, Sendai, JAPAN, pp. 18-21.
		"Process for in-plane and out-of-plane single-crystal-silicon thermal microactuators"; J. Mark Noworolski, et al., Sensors and Actuators A 55 (1996); pp. 65-69.
		Ayón et al., "Etching Characteristics and Profile Control in a Time Multiplexed ICP Etcher," Proc. Of Solid State Sensor and Actuator Workshop Technical Digest, Hilton Head SC, (June 1998) 41-44.
		Bartha et al., "Low Temperature Etching of Si in High Density Plasma Using SF ₆ /O ₂ ," Microelectronic Engineering, Elsevier Science B.V., vol. 27, (1995) 453-456.
		Fung et al., "Deep Etching of Silicon Using Plasma" Proc. Of the Workshop on Micromachining and Micropackaging of Transducers, (Nov. 7-8, 1984) pp. 159-164.
		IEEE Technical Digest entitled "Compliant Electro-thermal Microactuators", J. Jonsmann, O. Sigmund, S. Bouwstra, Twelfth IEEE International Conference on Micro Electro Mechanical Systems held January 17-21, 1999, Orlando, Florida, pp. 588 - 593, IEEE Catalog Number: 99CH36291C.
		Klaassen et al., "Silicon Fusion Bonding and Deep Reactive Ion Etching; A New Technology for Microstructures," Proc., Transducers 95 Stockholm Sweden, (1995) 556-559.
		Linder et al., "Deep Dry Etching Techniques as a New IC Compatible Tool for Silicon Micromachining," Proc., Transducers, vol. 91, (Jun. 1991) pp. 524-527.
		Petersen et al., "Surfaced Micromachined Structures Fabricated with Silicon Fusion Bonding" Proc., Transducers 91, (Jun. 1992) pp. 397-399.
		Yunkin et al., "Highly Anisotropic Selective Reactive Ion Etching of Deep Trenches in Silicon," Microelectronic Engineering, Elsevier Science B.V., vol. 23, (1994) pp. 373-376.
EXAMINER	/Lan Vinh/	DATE CONSIDERED

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